

AMENDMENT(S) TO THE SPECIFICATION

Please insert the following paragraph at page 1, line 3:

CROSS REFERENCE TO RELATED APPLICATION

The present application is a 35 U.S.C. §§ 371 national phase conversion of PCT/DE2003/003603 filed 29 October 2003, which claims priority of German Application No. 102 50 459.8 filed 30 October 2002. The PCT International Application was published in the German language.

Please replace the paragraph beginning at page 1, line 15, with the following rewritten paragraph:

DE 8711624 U shows a rolling bearing for aeronautical applications which satisfies the requirements for a lightweight construction yet is in a form which is very difficult to produce. Despite the complex form of this rolling bearing or of the rolling bearing races or raceways, the demands imposed with regard to the possibility of the formation of cracks being minimized are not satisfied by this embodiment.

Please replace the paragraph beginning at page 2, line 4, with the following rewritten paragraph:

According to the invention, the object is achieved by ~~the features given in the characterizing clause of claim 1~~ a single-row or multi-row rolling bearing comprising thin-walled bearing races which are made of a martensitic, through hardened steel and having the following characteristics: a surface hardness of ≥ 613 HV (56 HRC) in the area of the bearing face; a core hardness of ≥ 285 HV (28 HRC); a difference of ≥ 150 HV (9HRC) between the surface hardness and the core hardness. The core hardness is reached at a depth ranging between 8 percent of the diameter of the rolling elements and 90 percent of the wall thickness on the bottom of the track. There is a ratio of ≥ 20 between the diameter of a pitch circle T_k and the diameter of a rolling element D_w .

Please replace the paragraph beginning at page 2, line 13, with the following rewritten paragraph:

Particularly positive properties are produced for the rings according to the invention if they have a surface hardness in the region of the raceways of $[[>]] \geq 613 \text{ HV (56 HRC)}$ and a core hardness in the thin-walled rings of $[[>]] \geq 285 \text{ HV (28 HRC)}$. The core hardness is reached at a depth of between 8% of the rolling body diameter and 90% of the wall thickness of the race in the race base.

Please delete page 5 in its entirety.